

PHOSPHOR, ITS PREPARATION AND FLUORESCENT LAMP USING THE SAME

Patent number: JP3287690
Publication date: 1991-12-18
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Classification:
- International: C09K11/78; H01J61/44
- european:
Application number: JP19900088303 19900404
Priority number(s):

BEST AVAILABLE COPY**Abstract of JP3287690**

PURPOSE: To obtain a phosphor which is made of an oxide of a rare earth element, contains Eu as an activator and is improved, as compared with conventional phosphors, in overall powder luminance for excitation at a specific wavelength and light flux of a fluorescent lamp by incorporating specific amounts of In and B.

CONSTITUTION: In and B are added to a phosphor which is made of a rare earth element oxide (wherein the rare earth element is at least one member selected from Y, Gd, La and Lu) and contains Eu as an activator. The amount of In is 0.2mol% or less in terms of In₂O₃ and that of B is 0.001 to 1mol% in terms of B₂O₃. (e.g. a compound represented by the formula).

(Y₂O₃)_{1-x}(Gd₂O₃)_xEu₂O_{1.5}, 0.001-0.2 mol%

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